L Number	Hits	Search Text	DB	Time stamp
3	535	(700/17).CCLS.	USPAT;	2004/11/09 15:13
			US-PGPUB;	
			EPO; JPO;	
			DERWENT; IBM_TDB	
4	266	(700/18).CCLS.	USPAT:	2004/11/09 15:14
'	200	,	US-PGPUB;	1007/11/0/15:14
			EPO; JPO;	
1			DERWENT;	
i _		(TO 1) COV 0	IBM_TDB	1
5	450	(700/2).CCLS.	USPAT;	2004/11/09 15:14
			US-PGPUB; EPO; JPO;	
			DERWENT;	]
		•	IBM_TDB	
6	29036	mask\$2 near5 (data or value)	USPAT;	2004/11/09 15:17
			US-PGPUB;	1
			ЕРО; ЛРО;	1
			DERWENT;	,
9	1.2	((700/2).CCLS.) and (mask\$2 near5 (data or value))	IBM_TDB	2004/11/00 15 15
7	16	((100/2).CCLS.) and (mask\$2 near5 (data of value))	USPAT; US-PGPUB;	2004/11/09 15:15
			EPO; JPO;	
			DERWENT:	
			IBM_TDB	
7	16	((700/17).CCLS.) and (mask\$2 near5 (data or value))	USPĀT;	2004/11/09 15:15
			US-PGPUB;	
			EPO; JPO;	]
			DERWENT; IBM_TDB-	1
8	13	((700/18).CCLS.) and (mask\$2 near5 (data or value))	USPAT;	2004/11/09 15:16
		(1, or 20, 0000), and financial field of value,	US-PGPUB;	2004/11/0/13:10
	!		EPO; JPO;	
		•	DERWENT;	
			IBM_TDB	
10	2995	mask\$2 near5 (data or value) and cach\$3	USPAT;	2004/11/09 15:17
			US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM_TDB	
11	4	((700/17).CCLS.) and (mask\$2 near5 (data or value) and cach\$3)	USPAT;	2004/11/09 15:17
			US-PGPUB;	-
			ЕРО; ЛРО;	
			DERWENT;	
12	1	((700/18).CCLS.) and (mask\$2 near5 (data or value) and cach\$3)	IBM_TDB USPAT;	2004/11/09 15:18
	•	West solved by and indexes hears judia of value, and caches;	US-PGPUB;	2004/11/09 15:18
			EPO; JPO;	
			DERWENT;	
		was a gara state of a	IBM_TDB	
13	2	((700/2).CCLS.) and (mask\$2 near5 (data or value) and cach\$3)	USPAT;	2004/11/09 15:18
			US-PGPUB;	
			EPO; JPO; DERWENT;	
		·	IBM_TDB	
-	2269	I/O adj processor	USPAT;	2004/11/09 13:13
l			US-PGPUB;	
		,	EPO, JPO,	
			DERWENT;	
_	71	(L/O adj processor) with cach\$3	IBM_TDB	2004/11/00 11 1
1	′1	to any processor, with caches	USPAT; US-PGPUB;	2004/11/09 13:13
1			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	52	((L/O adj processor) with cach\$3) and @ad<=20010725	USPAT;	2004/11/09 14:08
ì		- -	US-PGPUB;	
İ			EPO; JPO;	
			DERWENT;	
_	6	(I/O adj processor) and (force near5 mask)	IBM_TDB USPAT;	2004/11/00 14:05
1	"	The many processor, and trouve near mask,	US-PGPUB;	2004/11/09 14:05
			EPO; JPO;	
Ì			DERWENT;	
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-	29	(I/O adj processor) and (forced near5 data)	USPAT;	2004/11/09 14: 07
			US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	108	(L/O adj processor) and (mask\$2 near5 (data or value))	USPAT;	2004/11/09 14: 29
			US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT;	
		(I/O adi processor) and (mask\$2 mask\$ data or vishas)	IBM_TDB	2004/11/00 14 00
-	86	(I/O adj processor) and (mask\$2 near2 (data or value))	USPAT; US-PGPUB;	2004/11/09 14:08
			EPO; JPO;	
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			IBM_TDB	
-	86	((L/O adj processor) and (mask\$2 near2 (data or value))) and @ad<=20010725	USPAT;	2004/11/09 14:08
		· ·	US-PGPUB;	
		,	EPO; JPO;	
			DERWENT;	
_	0	force adj on adj mask	IBM_TDB USPAT;	2004/11/09 14: 09
		Torce and our and mask	US-PGPUB:	2004/11/07 14:07
			EPO; JPO;	
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-	0	force adj on adj mask\$1	USPAT;	2004/11/09 14:09
			US-PGPUB;	
			EPO; JPO; DERWENT;	
		·	IBM_TDB	
-	2387	force near5 mask\$1	USPAT:	2004/11/09 14:10
			US-PGPUB;	100 11 12 11 11
			ЕРО; ЛРО;	
	1		DERWENT;	
		(A. C. 1)	IBM_TDB	
-	6	(L/O adj processor) and (force near5 mask\$1)	USPAT;	2004/11/09 14: 20
			US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	136	L/O adj value	USPAT;	2004/11/09 14: 26
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_	1	(L/O adj value) near5 forced	IBM_TDB USPAT;	2004/11/09 14: 21
	_	(1) O adj valde) licars loreed	US-PGPUB:	2004/11/09 14: 21
		'	EPO; JPO;	
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-	1	(I/O adj value) near5 (forced or mask\$2)	USPAT;	2004/11/09 14: 22
			US-PGPUB;	
			EPO; JPO; DERWENT;	
1			IBM_TDB	
-	6	(I/O adj value) and cach\$3	USPAT;	2004/11/09 14: 27
	İ	·	US-PGPUB;	
	•		EPO; JPO;	
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1_	,	(I/O adi foras se) and cooks s	IBM_TDB	3004 /11 :00 : : : : :
1	3	(I/O adj forc\$3e) and cach\$3	USPAT; US-PGPUB;	2004/11/09 14: 28
			EPO; JPO;	
1			DERWENT:	
İ			IBM_TDB	•
-	8	(I/O adj forc\$3) and cach\$3	USPAT;	2004/11/09 14:28
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_	29036	(mask\$2 near5 (data or value))	IBM_TDB USPAT;	2004/11/00 14: 30
	2,050	INTERPOLATION OF THEMP!	US-PGPUB;	2004/11/09 14: 30
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	

•	238	((mask\$2 near5 (data or value))) with cach\$3	USPAT;	2004/11/09 14: 30
			US-PGPUB;	
	j l		EPO; JPO; DERWENT;	
Ì			IBM_TDB	
_	10	((mask\$2 near5 (data or value))) with cach\$3 with L/O	USPAT;	2004/11/09 14:42
		Ministra nous fauta of variability with outlines with 20	US-PGPUB;	2001/22/07 21: 12
			ЕРО; ЈРО;	
1			DERWENT;	
			IBM_TDB	
-	67	infrequently near2 (changed or altered) near3 data	USPAT;	2004/11/09 14:43
	]		US-PGPUB;	
			ЕРО; ЛРО;	
İ	!		DERWENT;	
_	5	(infrequently near2 (changed or altered) near3 data) with cach\$3	IBM_TDB USPAT;	2004/11/09 14:44
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			EPO; JPO;	
	1		DERWENT;	
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-	837	(711/113).CCLS.	USPAT;	2004/11/09 14:44
			US-PGPUB;	
1	1		ЕРО; ЛРО;	
1			DERWENT;	
	1443	(711 (110) CCI S	IBM_TDB	2004/11/00 14 55
1-	1443	(711/118).CCLS.	USPAT; US-PGPUB;	2004/11/09 14: 55
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	870	(711/147).CCLS.	USPAT;	2004/11/09 14:55
1			US-PGPUB;	
1			EPO; JPO;	
	1	•	DERWENT;	
			IBM_TDB	
] -	904	(710/1).CCLS.	USPAT;	2004/11/09 14:56
	1		US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM_TDB	
-	861	(710/5).CCLS.	USPAT;	2004/11/09 14: 56
		(1.20.2).0.025.	US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT;	
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-	180	(710/23).CCLS.	USPAT;	2004/11/09 14: 56
			US-PGPUB;	
			EPO; JPO; DERWENT;	
1			IBM_TDB	
-	326	(710/48).CCLS.	USPAT;	2004/11/09 14: 56
		,	US-PGPUB;	
			EPO; JPO;	
1			DERWENT;	
			IBM_TDB	
-	85	(710/49).CCLS.	USPAT;	2004/11/09 14: 56
			US-PGPUB;	
			EPO; JPO; DERWENT;	
	1		IBM_TDB	
-	225	(710/262).CCLS.	USPAT;	2004/11/09 14: 56
1		·	US-PGPUB;	
1			•ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
-	136	(712/224).CCLS.	USPAT;	2004/11/09 14: 57
			US-PGPUB;	
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1.	0	("19and24").PN.	USPAT;	2004/11/09 14: 57
1	"	) arminat fills	US-PGPUB;	2007/22/07 17:37
			EPO; JPO;	İ
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			DERWENT; IBM_TDB	

-	57	((mask\$2 near5 (data or value))) and ((711/118).CCLS.)	USPAT;	2004/11/09 14: 57
			US-PGPUB;	
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1.	40	((mask\$2 near5 (data or value))) and ((711/147).CCLS.)	USPAT;	2004/11/09 14:57
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			ЕРО; ЈРО;	
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-	42	((mask\$2 near5 (data or value))) and ((710/1).CCLS.)	USPAT;	2004/11/09 14: 57
			US-PGPUB;	
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l <u>-</u>	34	((mask\$2 near5 (data or value))) and ((710/5).CCLS.)	USPAT;	2004/11/09 14:57
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-	9	((mask\$2 near5 (data or value))) and ((710/23).CCLS.)	USPAT; US-PGPUB;	2004/11/09 14: 57
			EPO; JPO;	
			DERWENT;	
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-	10	((mask\$2 near5 (data or value))) and ((710/28).CCLS.)	USPĀT;	2004/11/09 14: 57
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	10	((mask\$2 near5 (data or value))) and ((710/48).CCLS.)	IBM_TDB	2004/11/00 14: 57
-	19	((mask\$2 near5 (data of value))) and ((710/48).CCLS.)	USPAT; US-PGPUB;	2004/11/09 14: 57
			EPO; JPO;	
1			DERWENT;	
			IBM_TDB	
-	33	((mask\$2 near5 (data or value))) and ((710/49).CCLS.)	USPAT;	2004/11/09 14: 57
		·	US-PGPUB;	
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_	49	((mask\$2 near5 (data or value))) and ((710/262).CCLS.)	USPAT;	2004/11/09 14: 57
	1 7	(masks: near) (data of variacy) and (1/10/202). CCES.)	US-PGPUB:	2004/22/0/ 24.5/
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-	80	((mask\$2 near5 (data or value))) and ((712/224).CCLS.)	USPAT;	2004/11/09 14: 57
			US-PGPUB; EPO; JPO;	
	ł		DERWENT,	
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-	24	((mask\$2 near5 (data or value))) and ((711/113).CCLS.)	USPAT;	2004/11/09 14: 59
			US-PGPUB;	
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1_	0	(I/O adj processor) and (((mask\$2 near5 (data or value))) and ((711/118).CCLS.))	IBM_TDB   USPAT;	2004/11/09 14: 59
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			EPO; JPO;	
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-	0	(L/O adj processor) and (((mask\$2 near5 (data or value))) and ((711/147).CCLS.))	USPAT;	2004/11/09 14:59
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-	4	(L/O adj processor) and (((mask\$2 near5 (data or value))) and ((710/1).CCLS.))	USPAT;	2004/11/09 15:00
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	İ		ЕРО; ЈРО;	
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-	3	(I/O adj processor) and (((mask\$2 near5 (data or value))) and ((710/5).CCLS.))	USPAT:	2004/11/09 15:01
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-	1	(L/O adj processor) and (((mask\$2 near5 (data or value))) and ((710/23).CCLS.))	USPAT;	2004/11/09 15:01
	_		US-PGPUB:	
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-	1	(L/O adj processor) and (((mask\$2 near5 (data or value))) and ((710/48).CCLS.))	USPAT:	2004/11/09 15: 02
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_	1	(L/O adj processor) and (((mask\$2 near5 (data or value))) and ((710/262).CCLS.))	USPAT:	2004/11/09 15: 02
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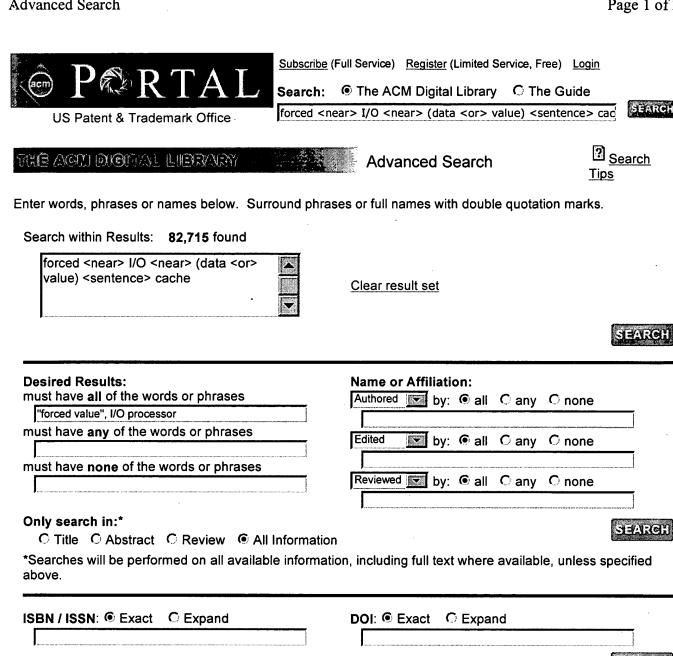
4 Memory hierarchy management for iterative graph structures Al-Furaih, I.; Ranka, S.;

Parallel Processing Symposium, 1998. 1998 IPPS/SPDP. Proceedings of the Fit Merged International...and Symposium on Parallel and Distributed Processing 1998, 30 March-3 April 1998

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Dean Jacobs, Jan Prins, Peter Siegel, Kenneth Wilson

October 1982 Proceedings of the 15th annual workshop on Microprogramming

Full text available: pdf(545.73 KB)

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Effective optimization of FPS Array Processor assembly language (APAL) is difficult. Instructions must be rearranged and consolidated to minimize periods during which the functional units remain idle or perform unnecessary tasks. Register conflicts and branches cause complications. Deterministic algorithms to arrange instructions traditionally use complex heuristics which are tailored to specific inputs. A non-deterministic approach can be simpler and effective on a large class of inputs. T ...

Performance evaluation of the Orca shared-object system



Henri E. Bal, Raoul Bhoedjang, Rutger Hofman, Ceriel Jacobs, Koen Langendoen, Tim Rühl, M. Frans Kaashoek

February 1998 ACM Transactions on Computer Systems (TOCS), Volume 16 Issue 1

Full text available: pdf(179.39 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Orca is a portable, object-based distributed shared memory (DSM) system. This article studies and evaluates the design choices made in the Orca system and compares Orca with other DSMs. The article gives a quantitative analysis of Orca's coherence protocol (based on write-updates with function shipping), the totally ordered group communication protocol, the strategy for object placement, and the all-software, user-space architecture. Performance measurements for 10 parallel applications ill ...

**Keywords:** distributed shared memory, parallel processing, portability

3 WaveScalar

Steven Swanson, Ken Michelson, Andrew Schwerin, Mark Oskin

December 2003 Proceedings of the 36th Annual IEEE/ACM International Symposium on **Microarchitecture** 

Publisher Site

Additional Information: full citation, abstract, citings, index terms

h cf g e

Silicon technology will continue to provide an exponential increasein the availability of raw transistors. Effectively translatingthis resource into application performance, however, is an open challenge. Ever increasing wire-delay relative to switching speed and the exponential cost of circuit complexitymake simply scaling up existing processor designs futile. In this paper, we present an alternative to superscalardesign, WaveScalar. WaveScalar is a dataflow instructionset architecture and executi ...

## dataflow instructionset architecture and executi ... 4 Revised report on the algorithmic language scheme J Rees, W Clinger December 1986 ACM SIGPLAN Notices, Volume 21 Issue 12 Full text available: pdf(4.06 MB) Additional Information: full citation, citings, index terms 5 ProtoMol, an object-oriented framework for prototyping novel algorithms for molecular dynamics Thierry Matthey, Trevor Cickovski, Scott Hampton, Alice Ko, Qun Ma, Matthew Nyerges, Troy Raeder, Thomas Slabach, Jesús A. Izaquirre September 2004 ACM Transactions on Mathematical Software (TOMS), Volume 30 Issue 3 Full text available: pdf(907.26 KB) Additional Information: full citation, abstract, references, index terms ProtoMol is a high-performance framework in C++ for rapid prototyping of novel algorithms for molecular dynamics and related applications. Its flexibility is achieved primarily through the use of inheritance and design patterns (object-oriented programming). Performance is obtained by using templates that enable generation of efficient code for sections critical to performance (generic programming). The framework encapsulates important optimizations that can be used by developers, such as parall ... Keywords: Fast electrostatic methods, incremental parallelism, molecular dynamics, multigrid, multiple time-stepping integration, object-oriented framework. <sup>6</sup> Kernel Korner: Dynamic Kernels - Modularized Device Drivers March 1996 Linux Journal Full text available: html(29.61 KB) Additional Information: full citation, index terms 7 Haptic sculpting of dynamic surfaces Frank Dachille, Hong Qin, Arie Kaufman, Jihad El-Sana

A placement algorithm for array processors
 Dah-Juh Chyan, Melvin A. Breuer
 June 1983 Proceedings of the 20th conference on Design automation

Full text available: pdf(648.80 KB)

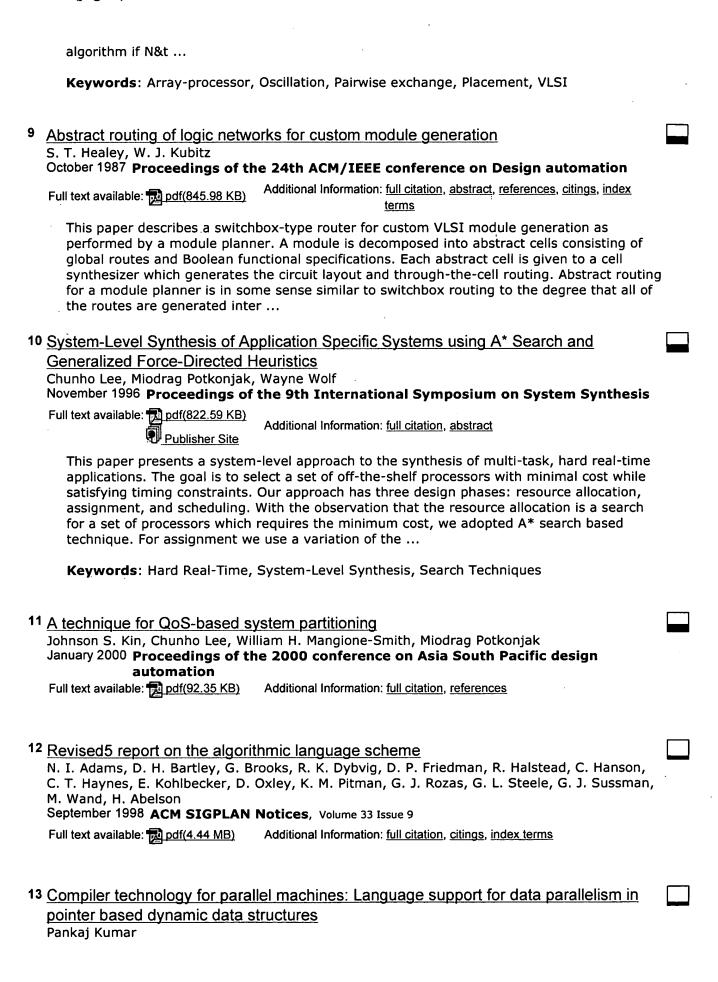
Additional Information: full citation, abstract, references, citings, index

April 1999 Proceedings of the 1999 symposium on Interactive 3D graphics

Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

In this report a concurrent pairwise exchange placement algorithm executing on an array processor is presented. Two force functions and their effects are discussed. The oscillation phenomenon caused by the concurrent computation is investigated and some solutions are suggested. A design for the array processor is presented along with a complexity analysis which indicates that this algorithm is O(N2) faster than a conventional sequential placement

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## October 1993 Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2 Full text available: pdf(634.64 KB) Additional Information: full citation, abstract, references To date, most of the work on language support for data parallelism has been largely limited to static data structures such as arrays. In 'C' or C++, the use of pointers and dynamic memory allocators provide the ability to handle more complex data structures whose size and shape may vary over the course of the computation. There are two main issues with regards to supporting data parallelism on pointerbased dynamic data structures without having the programmer worry about synchronization, ... 14 Fault diagnosis based on effect-cause analysis: An introduction Miron Abramovici, Melvin A. Breuer June 1980 Proceedings of the 17th conference on Design automation Additional Information: full citation, abstract, references, citings, index Full text available: pdf(691.37 KB) terms This paper presents the basic concepts of a new fault diagnosis technique which has the following features: 1) is applicable to both single and multiple faults, 2) does not require fault enumeration, 3) can identify faults which prevent initialization, 4) can indicate the presence of nonstuck faults in the D.U.T., 5) can identify fault-free lines in the D.U.T. Our technique, referred to as effect-cause analysis, does not require a fault dictionary and it is not based on com ... 15 Borel sets and circuit complexity Michael Sipser December 1983 Proceedings of the fifteenth annual ACM symposium on Theory of computing Additional Information: full citation, abstract, references, citings, index Full text available: pdf(534.71 KB) terms It is shown that for every k, polynomial-size, depth-k Boolean circuits are more powerful than polynomial-size, depth-(k-1) Boolean circuits. Connections with a problem about Borel sets and other questions are discussed. 16 Efficient visualization of physical and structural properties in crash-worthiness simulations (case study) Sven Kuschfeldt, Thomas Ertl, Michael Holzner October 1997 Proceedings of the 8th conference on Visualization '97 Full text available: pdf(592.85 KB) Additional Information: full citation, references, index terms Publisher Site 17 DAB: interactive haptic painting with 3D virtual brushes Bill Baxter, Vincent Scheib, Ming C. Lin, Dinesh Manocha August 2001 Proceedings of the 28th annual conference on Computer graphics and interactive techniques Additional Information: full citation, abstract, references, citings, index Full text available: pdf(10.82 MB) terms We present a novel painting system with an intuitive haptic interface, which serves as an expressive vehicle for interactively creating painterly works. We introduce a deformable, 3D brush model, which gives the user natural control of complex brush strokes. The force feedback enhances the sense of realism and provides tactile cues that enable the user to

better manipulate the paint brush. We have also developed a bidirectional, two-layer paint

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model that, combined with a palette interface ...

**Keywords**: Human Computer Interaction, deformable brush model, haptics, painting systems

18	A test synthesis approach to reducing BALLAST DFT overhead	
	Douglas Chang, Mike Tien-Chien Lee, Malgorzata Marek-Sadowska, Takashi Aikyo, Kwang-Ting	
	Cheng June 1997 Proceedings of the 34th annual conference on Design automation - Volume	
	00	
	Full text available: 📆 pdf(168.52 KB)	
	Additional Information: full citation, abstract, references, index terms  Publisher Site	
	In this paper, we present a test synthesis approach which integratesBALLAST (BALAnced structure Scan Test) withan enhanced test point insertion (TPI) algorithm to	
	functionallyscan the flip-flops chosen by BALLAST.BALLASTis an attractive partial scan	
	technique in that it offers combinationalATPG efficiency while promising to reduce full	
	scanoverhead. However, the practical problem with BALLASTis it typically requires more	
	scan flip-flops than other partialscan techniques. The TPI enhancements enabl	
40		
13	The combination of scheduling, allocation, and mapping in a single algorithm Richard J. Cloutier, Donald E. Thomas	
	January 1991 Proceedings of the 27th ACM/IEEE conference on Design automation	
	Additional Information full station photograph of support index	
	Full text available: pdf(792.19 KB)  Additional information: tuli citation, abstract, references, citings, index terms	
	We present a single high level synthesis algorithm that schedules the operations of a data dependence graph, allocates the necessary hardware, and maps the operations to specific functional units. This is achieved by extending the global analysis approach developed for force-directed scheduling to include individual module instances. This new algorithm should be applicable to any behavioral synthesis system that schedules operations from a data dependence graph.	
20	Interaction and VR: A model for efficient and accurate interaction with elastic objects in	
	haptic virtual environments	
	Dan C. Popescu, Michael Compton	
	February 2003 Proceedings of the 1st international conference on Computer graphics and interactive techniques in Australasia and South East Asia	
	Full text available: pdf(260.21 KB) Additional Information: full citation, abstract, references	
	This paper describes a method of modelling real-time interactions with elastic 3D objects	
	represented by finite element models, which is particularly suitable for haptic virtual environments. The assumption we make is that the area of interaction of the external forces on the object is small. Our method provides a physically based solution and only requires the precomputation of the inverse of the stiffness matrix. It can be naturally coupled with a technique of local multiresolution collision d	
	<b>Keywords</b> : deformable objects, finite element method, haptics, linear elasticity, virtual reality	

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Result page: 1 2 next

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Results 1 - 20 of 25